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Material Safety Data Sheet

MSDS No.: 021-001212

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SECTION 1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

PRODUCT NAME	:	Toner Cartridge for Panasonic Multi-Function Printer, Model KX-MB2000 series
PRODUCT NUMBER	:	KX-FAT461, KX-FAT411A, KX-FAT411A7, KX-FAT411H, KX-FAC415CN, KX-FAT411A-T, KX-FAT413A
PRODUCT NAME	:	Drum Cartridge for Panasonic Multi-Function Printer, Model KX-MB2000 series
PRODUCT NUMBER	:	KX-FAD462, KX-FAD412A, KX-FAD412A7, KX-FAD412H, KX-FAD416CN, KX-FAD414A
PRODUCT NAME	:	Toner Cartridge for Panasonic Multi-Function Printer, Model KX-MB3000 series
PRODUCT NUMBER	:	KX-FAT451, KX-FAT401H, KX-FAT403A, KX-FAC405CN, KX-FAT403A-D, KX-FAT401E
PRODUCT NAME	:	Toner Cartridge for Panasonic Multi-Function Printer, Model DP-MB300 series
PRODUCT NUMBER	:	DQ-TCB008, DQ-TCB008-C, DQ-TCB008-D

SECTION 2 HAZARDOUS IDENTIFICATION

MOST IMPORTANT HAZARDS AND EFFECTS

GHS CLASSIFICATION

PHYSICAL AND CHEMICAL HAZARD	:	Not classified
HEALTH HAZARDS		
ACUTE TOXICITY (Oral)	:	Not classified
ACUTE TOXICITY (Dermal)	:	Not classified
ACUTE TOXICITY (Inhalation)	:	Not applicable (Vapours)
SKIN CORROSION / IRRITATION	:	Classification not possible
SERIOUS EYE DAMAGE / EYE IRRITATION	:	Classification not possible
RESPIRATORY SENSITIZATION	:	Classification not possible
SKIN SENSITIZATION	:	Classification not possible
GERM CELL MUTAGENICITY	:	Classification not possible
CARCINOGENICITY	:	Category 2
REPRODUCTIVE TOXICITY	:	Classification not possible
SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY		
- SINGLE EXPOSURE	:	Classification not possible
- REPEATED EXPOSURE	:	Category 1(lung)
ASPIRATION HAZARD	:	Classification not possible
ENVIRONMENTAL HAZARDS		
HAZARDOUS TO THE AQUATIC ENVIRONMENT		
- ACUTE TOXICITY	:	Classification not possible
- CHRONIC TOXICITY	:	Classification not possible

GHS LABEL ELEMENTS

PICTOGRAMS OR SYMBOLS :

SIGNAL WORD	:	Danger
HAZARD STATEMENTS	:	Suspected of causing cancer Causes damage to organs through prolonged or repeated exposure (lung)

PRECAUTIONARY STATEMENTS

PREVENTION : Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood
Do not breathe dust/fume/gas/mist/vapours/spray.
Do not eat, drink or smoke when using this product.
Wash thoroughly after handling.
If needed, use personal protective equipment as required.

RESPONSE : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF ON SKIN: Gently wash with plenty of soap and water.
IF exposed or concerned: Get medical attention/advice.

STORAGE : Store locked up.
Protect from sun. Store in a well-ventilated room (under 40 C).

DISPOSAL : Passed to a licensed waste contractor.

SAFE HANDLING ADVICE :

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE OR MIXTURE : Mixture

INGREDIENTS	CAS #	PROPORTION (% by wt.)	EC #	SYMBOLS	R PHRASE
• Polyester resin	Confidential	Confidential		None	None
• Carbon black	1333-86-4	Confidential	215-609-9	None	None
• Other components		Confidential		None	None

SECTION 4 FIRST AID MEASURES

IN CASE OF INHALATION : Remove to fresh air and keep at rest in a position comfortable for breathing.
IF exposed or concerned: Get medical attention/advice.
Get medical attention/advice if you feel unwell.

IN CASE OF SKIN CONTACT : Gently wash with plenty of soap and water.
IF exposed or concerned: Get medical attention/advice.
Get medical attention/advice if you feel unwell.

IN CASE OF EYE CONTACT : : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Get medical attention/advice.
Get medical attention/advice if you feel unwell.

IN CASE OF INGESTION : IF exposed or concerned: Get medical attention/advice.
Get medical attention/advice if you feel unwell.

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA : Water spray, powder

NOT SUITABLE EXTINGUISHING MEDIA : No information available

SPECIFIC HAZARDS : May produce irritating or toxic gases in a fire.

SPECIFIC METHODS : Keep away from sources of ignition and use appropriate extinguishing media. Fight fire from upwind position if possible.

PROTECTION OF FIRE FIGHTERS : Use goggles in combination with dust mask, and another protections as appropriate to situation.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURE : Use mask, goggles and protective gloves.
Large spills : Remove person to safety.
Ensure adequate ventilation.
Treat from upwind position.

ENVIRONMENTAL PRECAUTIONS : Do not discharge into the drains, surface waters or ground water directly

METHODS FOR CLEANING UP : Prevent dispersion of dust.
Sweep or vacuum by dust-explosion-proof type cleaner.

PREVENTION OF SECONDARY HAZARDS : No information available

SECTION 7 HANDLING AND STORAGE

HANDLING

TECHNICAL MEASURES : Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

PRECAUTIONS : Avoid inhalation of fine dust .

SAFE HANDLING ADVICE : Use an adequate ventilation.
Wash thoroughly after handling.
If needed, use personal protective equipment as required.
Do not breathe dust/fume/gas/mist/vapours/spray.
Do not eat, drink or smoke when using this product.
This material may cause risk of dust explosion.

STORAGE

SUITABLE STORAGE CONDITIONS : Keep container tightly closed.
Protect from sun. Store in a well-ventilated room (under 40°C).
Store locked up.

SAFE PACKAGING MATERIALS : No information available

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING MEASURES : Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
Use local exhaust ventilation, in case of generation of dust.

LIMIT VALUES

ACGIH (TLV) : 3.5 mg/m^3 TWA
Carbon black
10 mg/m^3 TWA (inhalable particles, recommended); 3 mg/m^3 TWA (respirable particles, recommended)(Particulates (insoluble or poorly soluble) not otherwise specified (PNOS))

OSHA (PEL) : 3.5 mg/m^3 TWA
Carbon black
15 mg/m^3 TWA (total dust); 5 mg/m^3 TWA (respirable fraction)
(Particulates not otherwise regulated)

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION : Use dust mask, as appropriate to situation.

HAND PROTECTION : Rubber gloves

EYE PROTECTION : Safety glasses with side shield(Safety goggles or Face shield)

SKIN AND BODY PROTECTION : Full-body suit

HYGIENE MEASURES : No information available

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATES

FORM : Pulverizing powder

COLOUR : Black

ODOUR : Odourless

pH : No data available

SPECIFIC TEMPERATURES / TEMPERATURE RANGES AT WHICH CHANGES IN PHYSICAL STATE OCCUR

BOILING POINT : No information available

MELTING POINT : No information available

FLASH POINT : No data available

FLAMMABILITY OR EXPLOSIVE PROPERTIES

FLAMMABILITY OR EXPLOSIVE LIMITS : UPPER LIMIT : No information available
LOWER LIMIT : No information available

VAPOUR PRESSURE : No information available

VAPOUR DENSITY : No information available

SPECIFIC GRAVITY (DENSITY) : 1.2 g/mL (20 ºC) (68 ºF)

SOLUBILITY

WATER SOLUBILITY : Insoluble

SOLVENT SOLUBILITY : Partially soluble in toluene, chloroform and tetrahydrofurane.

PARTITION COEFFICIENT: n-OCTANOL / WATER (log Pow) : No information available

AUTO-IGNITION TEMPERATURE : No information available

DECOMPOSITION TEMPERATURE : No information available

ODOUR THRESHOLD : No information available

EVAPORATION RATE : No information available

FLAMMABILITY (SOLID,GAS) : No information available

VISCOSITY : No information available

OTHER DATA : No information available

SECTION 10 STABILITY AND REACTIVITY

CHEMICAL STABILITY	:	Stable in general.
POSSIBILITY OF HAZARDOUS REACTIONS	:	Stable.
CONDITIONS TO AVOID	:	No information available
INCOMPATIBLE MATERIALS	:	No information available
HAZARDOUS DECOMPOSITION PRODUCTS	:	No information available
OTHERS	:	No information available

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Oral

INFORMATION ON PRODUCT	:	No information available
INFORMATION ON INGREDIENTS	:	No information available 10% of the mixture consists of ingredients of unknown toxicity.

Dermal

INFORMATION ON PRODUCT	:	No information available
INFORMATION ON INGREDIENTS	:	No information available 13% of the mixture consists of ingredients of unknown toxicity.

Inhalation

INFORMATION ON PRODUCT	:	No information available
INFORMATION ON INGREDIENTS	:	No information available

SKIN CORROSION / IRRITATION

INFORMATION ON PRODUCT	:	No information available
INFORMATION ON INGREDIENTS	:	No information available

SERIOUS EYE DAMAGE / IRRITATION

INFORMATION ON PRODUCT	:	No information available
INFORMATION ON INGREDIENTS	:	No information available

RESPIRATORY OR SKIN SENSITIZATION

RESPIRATORY

INFORMATION ON PRODUCT	:	No information available
INFORMATION ON INGREDIENTS	:	No information available

SKIN

INFORMATION ON PRODUCT	:	No information available
INFORMATION ON INGREDIENTS	:	No information available

MUTAGENICITY (GERM CELL MUTAGENICITY)

INFORMATION ON PRODUCT	:	No information available
INFORMATION ON INGREDIENTS	:	No information available

CARCINOGENICITY

INFORMATION ON PRODUCT	:	No information available
INFORMATION ON INGREDIENTS	:	Carbon black: Category 2; Ref.(1)
IARC	:	Group 2B : Possibly carcinogenic to humans. Carbon black Group 3 : Not classifiable as to its carcinogenicity to humans Polytetrafluoroethylene
NTP	:	Not listed
EU	:	Not listed
OSHA	:	Not listed

REPRODUCTIVE TOXICITY

INFORMATION ON PRODUCT	:	No information available
INFORMATION ON INGREDIENTS	:	No information available

SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY

- SINGLE EXPOSURE

INFORMATION ON PRODUCT	:	No information available
INFORMATION ON INGREDIENTS	:	No information available

- REPEATED EXPOSURE

INFORMATION ON PRODUCT	:	No information available
INFORMATION ON INGREDIENTS	:	Carbon black: Category 1 (lung); Ref.(1)

ASPIRATION HAZARD

INFORMATION ON PRODUCT	:	No information available
INFORMATION ON INGREDIENTS	:	No information available

OTHER INFORMATION	:	No information available

SECTION 12 ECOLOGICAL INFORMATION

ECOTOXICITY	:	No information available
PERSISTENCE / DEGRADABILITY	:	No information available
MOBILITY IN SOIL	:	No information available
BIOACCUMULATIVE POTENTIAL	:	No information available
OTHER ADVERSE EFFECTS	:	No information available

SECTION 13 DISPOSAL CONSIDERATIONS

Review "HANDLING AND STORAGE (Section 7)".
Passed to a licensed waste contractor.
This product may cause risk of dust explosion.

Dispose of waste in accordance with local,state and federal regulations.

SECTION 14 TRANSPORT INFORMATION

Follow all regulations in your country or region

INTERNATIONAL REGULATIONS

UN CLASS / UN NUMBER	:	Not applicable
SPECIAL PRECAUTIONS FOR USER	:	Review "ACCIDENTAL RELEASE MEASURES (Section 6)". Review "HANDLING AND STORAGE (Section 7)". Ensure containers without breakage or leakage. Ensure containers tightly fixed. Follow all regulations in your country or region. Avoid heating(keep under 40 C).

SECTION 15 REGULATORY INFORMATION

Follow all regulations in your country or region.

INVENTORIES	:	ENCS(Japan)	Yes
		TSCA(USA)	Yes
		EINECS(EU)	No(ELINCS)
		AICS(Australia)	Yes
		DSL(Canada)	No(NDSL)
		ECL(Korea)	Yes
		PICCS(Philippines)	Yes
		IECSC(China)	Yes

Panasonic System Networks Co., Ltd. is not able to check up the regulatory information in regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.

SECTION 16 OTHER INFORMATION

REFERENCE	:	-Safety data sheet for chemical products - Part 1: Content and order of sections(ISO 11014-1) REFERENCE : -International Chemical Safety Cards(ICSC) (Compiler's Guide)(1994) (1)GHS Classification Datebase, National Institute of Technology and Evaluation (NITE)

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